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S E C R E T 010252Z DEC 70 CITE [REDACTED] 0765

25X1A

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*1 Dec in 216637*REF: DIRECTOR 087352 *SD*

25X1A

1. RECENT [REDACTED] AIR CONDITIONING FAILURE WAS

CAUSED BY LOSS OF ONE PHASE [REDACTED] POWER. [REDACTED] POWER ENTERS

25X1A

COMPOUND THROUGH DELTA TO WYE TRANSFORMER BANK SO THAT SOME

25X1A

VOLTAGE EXISTED ON EACH LEG. ALL BURNED OUT MOTORS HAVE MOTOR
PROTECT DEVICES, BUT HEATER COILS ARE INSTALLED IN ONLY TWO OF
THREE PHASES. [REDACTED] STILL TRYING TO

25X1A

DETERMINE IF THIS IN ACCORDANCE WITH APPROVED DESIGN.) CANNOT
ASCERTAIN CURRENT AND VOLTAGE CONDITIONS AT MOTOR CONTROL BOXES
WHEN BASE POWER LOST PHASE, BUT THE SAME LEG IS UNPROTECTED ON
ALL MOTORS THAT BURNED UP. MOTOR RESETS WERE TRIPPED ON CONTROL
BOXES OF ALL BURNED MOTORS, BUT CANNOT DETERMINE IF MOTORS
BURNED IN SPITE OF THIS OR IF RESETS TRIPPED BECAUSE MOTORS
BURNED.

R E C D

C

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1 EX

*P 12/4**12/11*2. WE HAVE BEEN OPERATING STATION SWITCHGEAR UNDER SOMEWHAT
MODIFIED PROCEDURE BECAUSE OF AIR CONDITIONING RECYCLING PROBLEM.
AS INSTALLED, ALL A/C COMPRESSORS START UPON POWER RESTORATION

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PAGE 2 [REDACTED] 0765 S E C R E T

AFTER A POWER FAILURE AND RUN UNTIL THEY PUMP DOWN. ONCE UNLOADED, THEY CYCLE UP AT 20 SECOND INTERVALS. HOWEVER, THIS INITIAL LOAD IS TOO GREAT FOR AUTOSTART GENERATORS AND WILL NOT ALLOW AUTOSTARTS TO START. TIME DELAY RELAYS ARE ON ORDER THAT WILL SEQUENCE THE COMPRESSORS AND ELIMINATE THIS PROBLEM. WHILE AWAITING THEIR ARRIVAL, [REDACTED] SWITCHGEAR MASTER SWITCH WAS PLACED IN "MANUAL" POSITION AND EMERGENCY POWER WAS BROUGHT UP BY MANUALLY TRIPPING AND CLOSING PROPER BREAKERS AND MANUALLY CYCLING THE COMPRESSORS. THIS ELIMINATED PROTECTIVE FEATURES OF THE SWITCHGEAR, BUT IT WAS BELIEVED THAT INDIVIDUAL MOTOR CONTROLS WOULD PROVIDE ADEQUATE PROTECTION.

25X1A

3. HAVE RETURNED SWITCHGEAR TO AUTOMATIC MODE TO INCLUDE SAFETY TRIP FEATURES. LEAVING INDIVIDUAL EMERGENCY GENERATOR CONTROLS "OFF." EVERY MOMENTARY POWER DIP WILL HAVE TO SWITCH TO "MANUAL," CLOSE PROPER BREAKER AND SWITCH BACK TO "AUTO." FOR PROLONGED POWER OUTAGES WILL SHUT OFF A/C COMPRESSOR MOTORS, START GENERATORS, AND CYCLE UP COMPRESSORS (BREAKERS CLOSE AUTOMATICALLY AFTER EMERGENCY GENERATORS RUNNING). BELIEVE THIS PROCEDURE WILL PREVENT FUTURE FAILURES AND PERMIT ACCEPTABLE OPERATION. GP-1.

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